

WHAT IS CLAIMED IS:

1. An image processing system, comprising:
image input means for inputting photographing
images;

5 first arrangement means for arranging plural
images of optional sizes input by said image input
means within an output area of a definite size;

second arrangement means for deleting
predetermined areas of the images to be arranged on the
10 basis of an arrangement result obtained by said first
arrangement means and arranges the images again within
said output area; and

image arrangement means for determining an
arrangement of said images within said output area and
15 executing said arrangement on the basis of an
arrangement result obtained by said first arrangement
means and an arrangement result obtained by said second
arrangement means.

20 2. A system according to Claim 1, wherein said
second arrangement means deletes a predetermined area
of a runover image by a quantity determined on the
basis of a width of the runover image when an image
runs over said output area as a result of an image
25 arrangement by said first arrangement means.

3. A system according to Claim 1, wherein said

second arrangement means deletes a predetermined area of a runover image by a quantity determined on the basis of a width of an arrangement area for the runover image when an image runs over said output area as a
5 result of an arrangement by said first arrangement means.

4. A system according to Claim 1, further comprising area direction setting means for setting a
10 direction of said output area,

wherein said first arrangement means comprises:

means for arranging said images in said output area in a first direction set by said area direction setting means; and

15 means for arranging said images in said output area in a second direction different from said first direction.

5. A system according to Claim 4, wherein said
20 first arrangement means arranges a runover image in said second direction when an image runs over said output area as a result of arrangement of said images in said output area in said first direction.

25 6. A system according to Claim 1, wherein said second arrangement means acquires a runover quantity when an image runs over said output area as a result of

the arrangement by said first arrangement means, and
said image arrangement means determines an
arrangement of said runover image in said output area
on the basis of said runover quantity.

5

7. A system according to Claim 1, further
comprising area direction setting means for setting a
direction of said output area,

wherein said first arrangement means comprises:

10 means for arranging said images within said output
area in a first direction set by said area direction
setting means; and

means for arranging said images within said output
area in a second direction different from said first
15 direction,

wherein said second arrangement means comprises:

means for acquiring a first runover quantity in an
arrangement in said first direction when an image runs
over said output area as a result of an arrangement by
20 said first arrangement means; and

means for acquiring a second runover quantity in
an arrangement in said second direction, and

said image arrangement means determines an
arrangement of said runover image in said output area
25 on the basis of said first runover quantity and said
second runover quantity.

8. A system according to Claim 7, further comprising image adding means for consecutively adding images to be arranged,

5 wherein said first arrangement means arranges said images once again excluding a finally added image when said first runover quantity or said second runover quantity exceeds a predetermined quantity.

9. A system according to Claim 1, wherein said
10 image input means inputs photographed radiation images.

10. A control method of an image processing system for processing photographing images, comprising steps of:

15 inputting photographing images;

arranging plural input images of optional sizes in an output area of a definite size;

20 deleting predetermined areas of images to be arranged on the basis of an arrangement result at said first arranging step and arranging the images within said output area once again; and

determining an arrangement of said images in said output area on the basis of an arrangement result at said first arranging step and said second arranging

25 step.

11. A control method according to Claim 10,

wherein a predetermined area of a runover image is
deleted by a quantity determined at said second
arranging step on the basis of a width of the runover
image when an image runs over said output area as a
5 result of an arrangement at said first arranging step.

12. A control method according to Claim 10,
wherein a predetermined area of a runover image is
deleted by a quantity determined at said second
10 arranging step on the basis of a width of an
arrangement area when an image runs over said output
area as a result of an arrangement at said first
arranging step.

15 13. A control method according to Claim 10,
further comprising an area direction setting step of
setting a direction of said output area,

wherein said images are arranged in said output
area in a first direction set at said area direction
20 setting step and in a second direction different from
said first direction.

14. A control method according to Claim 13,
wherein a runover image is arranged in said output area
25 in said second direction at said first arranging step
when an image runs over said output area as a result of
arranging said images in said output area in said first

direction.

15. A control method according to Claim 10,
wherein a runover quantity is acquired at said second
5 arranging step when an image runs over said output area
as a result of an arrangement at said first arranging
step, and

an arrangement of said runover image in said
output area is determined at said executing step on the
10 basis of said runover quantity.

16. A control method according to Claim 10,
further comprising an area direction setting step of
setting a direction of said output area,

15 wherein said images are arranged in said output
area at said first arranging step in a first direction
set at said area direction setting step and said images
are further arranged in said output area in a second
direction different from said first direction,

20 a first runover quantity in a disposition in said
first direction and a second runover quantity in said
second direction are acquired at said second arranging
step when an image runs over said output area as a
result of an arrangement at said first arranging step,
25 and

an arrangement of said runover image in said
output area is determined at said executing step on the

basis of said first runover quantity and said second runover quantity.

17. A control method according to Claim 16,
5 further comprising an image addition step of
consecutively adding images to be processed,

wherein said images are arranged once again with a
finally added image excluded at said first arranging
step when either of said first runover quantity or said
10 second runover quantity exceeds a predetermined
quantity.

18. A control method according to Claim 10,
wherein photographed radiation images are input at said
15 image input step.

19. A memory medium storing a program readable by
a computer for allowing an image processing system for
processing photographing images to execute following
20 steps,

wherein said program comprises:

inputting photographing images;

arranging plural input images of optional sizes in
an output area of a definite size;

25 deleting predetermined area of the images to be
arranged on the basis of an arrangement result at said
first arranging step and arranging said images in said

output area once again; and

determining an arrangement of said images in said
output area on the basis of an arrangement result at
said first arranging step and an arrangement at said
5 second arranging step, and executing said arrangement.

20. An image arranging method for consecutively
arranging plural images of optional sizes from a left
upside to a right downside in an output area of a
10 definite size so that the images are arranged in bands
in a line or row direction in said output area,
comprising:

a first arranging step of arranging said plural
images in said output area;

15 a second arranging step of arranging said plural
images once again in said output area so that marginal
portions of some or all of said plural images are
deleted by narrowing widths of said bands at ratios
proportional to widths of said bands when said plural
20 images can not be arranged in said output area in a
vertical direction and narrowing widths of images
existing in a band wherein an image which can not be
arranged in a horizontal direction of said output area
exists at ratios proportional to the widths of the
25 images when said plural images can not be arranged in
said output area in a horizontal direction, and

an image arranging step of determining an

arrangement of said plural images on the basis of arrangement results at said first arranging step and said second arranging step.

5 21. An image arranging method according to Claim 20, further comprising an area direction setting step of setting direction information of said output area,

 wherein said first arranging step comprises a step of performing an arrangement of said images once again
10 in a second direction different from a first direction set at said area direction setting step when a given image runs over said output area in an arrangement in said first direction, and

 wherein said second arranging step comprises a
15 step of arranging said plural images once again when a given image runs over said output area in an arrangement at said first arranging step.

 22. An image arranging method according to Claim
20 20, wherein said first arranging step comprises:

 a step of arranging the images in a first direction set at said area direction setting step; and

 a step of arranging the images in a second direction different from said first direction,

25 wherein said second arranging step comprises a step of acquiring a first runover quantity which is produced when said plural images can not be arranged in

said output area in said first direction and a step of acquiring a second runover quantity when said plural images can not be arranged in said output area in said second direction, and

5 wherein said image arranging step comprises a step of determining an image arrangement in a direction corresponding to a runover quantity whichever is smaller.

10 23. An image arranging method according to Claim 22, further comprising a step of consecutively adding images to be processed,

 wherein said image arranging step comprises a step of excluding an image finally added at said image
15 adding step when the first runover quantity or said second runover quantity whichever is smaller exceeds a definite ratio of said output area for the first time.

20 24. An image arranging method according to Claim 20, further comprising a step of reducing said plural images to an image.

25 25. An image arranging method according to Claim 20, further comprising a step of arranging said bands uniformly in said output area.

26. An image arranging method according to Claim

Year	1900	1901	1902	1903	1904	1905	1906	1907	1908	1909	1910	1911	1912	1913	1914	1915	1916	1917	1918	1919	1920	1921	1922	1923	1924	1925	1926	1927	1928	1929	1930	1931	1932	1933	1934	1935	1936	1937	1938	1939	1940	1941	1942	1943	1944	1945	1946	1947	1948	1949	1950	1951	1952	1953	1954	1955	1956	1957	1958	1959	1960	1961	1962	1963	1964	1965	1966	1967	1968	1969	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040	2041	2042	2043	2044	2045	2046	2047	2048	2049	2050	2051	2052	2053	2054	2055	2056	2057	2058	2059	2060	2061	2062	2063	2064	2065	2066	2067	2068	2069	2070	2071	2072	2073	2074	2075	2076	2077	2078	2079	2080	2081	2082	2083	2084	2085	2086	2087	2088	2089	2090	2091	2092	2093	2094	2095	2096	2097	2098	2099	2100
Population	1,000,000	1,050,000	1,100,000	1,150,000	1,200,000	1,250,000	1,300,000	1,350,000	1,400,000	1,450,000	1,500,000	1,550,000	1,600,000	1,650,000	1,700,000	1,750,000	1,800,000	1,850,000	1,900,000	1,950,000	2,000,000	2,050,000	2,100,000	2,150,000	2,200,000	2,250,000	2,300,000	2,350,000	2,400,000	2,450,000	2,500,000	2,550,000	2,600,000	2,650,000	2,700,000	2,750,000	2,800,000	2,850,000	2,900,000	2,950,000	3,000,000	3,050,000	3,100,000	3,150,000	3,200,000	3,250,000	3,300,000	3,350,000	3,400,000	3,450,000	3,500,000	3,550,000	3,600,000	3,650,000	3,700,000	3,750,000	3,800,000	3,850,000	3,900,000	3,950,000	4,000,000	4,050,000	4,100,000	4,150,000	4,200,000	4,250,000	4,300,000	4,350,000	4,400,000	4,450,000	4,500,000	4,550,000	4,600,000	4,650,000	4,700,000	4,750,000	4,800,000	4,850,000	4,900,000	4,950,000	5,000,000	5,050,000	5,100,000	5,150,000	5,200,000	5,250,000	5,300,000	5,350,000	5,400,000	5,450,000	5,500,000	5,550,000	5,600,000	5,650,000	5,700,000	5,750,000	5,800,000	5,850,000	5,900,000	5,950,000	6,000,000	6,050,000	6,100,000	6,150,000	6,200,000	6,250,000	6,300,000	6,350,000	6,400,000	6,450,000	6,500,000	6,550,000	6,600,000	6,650,000	6,700,000	6,750,000	6,800,000	6,850,000	6,900,000	6,950,000	7,000,000	7,050,000	7,100,000	7,150,000	7,200,000	7,250,000	7,300,000	7,350,000	7,400,000	7,450,000	7,500,000	7,550,000	7,600,000	7,650,000	7,700,000	7,750,000	7,80																																																																